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(54) Title: NETWORK MANAGEMENT SYSTEM

(57) Abstract: The present inventions discloses a method of managing a network, especially an optical network, including a plurality of nodes which are interconnected in an arbitrary topology so as to be capable of carrying traffic between selected nodes, comprising the steps of providing a supervisory network by means of supervisory channels between the node; providing a node manager which is comprised of one or more software modules in each node; establishing of supervisory connections over one or more supervisory channels between selected nodes through which the node manager communicates with other node manager in other nodes; providing a node module in each node manager that provides an interface to the hardware settings of the respective node; providing a master module in at least one node manager, establishing of supervisory connections over one or more supervisory channels between selected nodes through which the master module communicates with the node modules; amending and/or monitoring of hardware settings in selected nodes wit respective node module of the node; controlling of the amendments carried out by the node modules and/or processing of the monitored hardware settings by the master module.